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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/081,873	02/22/2002	Hiroki Nagai	388-020337	9910
75	90 06/04/2003			
Russell D. Orkin WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1818			EXAMINER	
			FISCHMANN, BRYAN R	
			ART UNIT	PAPER NUMBER
- · · · · · · · · · · · · · · · · · · ·			3618	<del></del>
			DATE MAILED: 06/04/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



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## Office Action Summary

Application No. 10/081,873

Applicant(s)

Examiner

Bryan Fischmann

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NAGAI, ET AL

	The MAILING DATE of this communication appears	on the cover sh	eet with	the correspondence address			
	for Reply						
	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE	3	MONTH(S) FROM			
- Extens	sions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event, however, n	nay a repty	be timely filed after SIX (6) MONTHS from the			
- If the	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within th						
	period for reply is specified above, the maximum statutory period will apply a b to reply within the set or extended period for reply will, by statute, cause th						
•	eply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	this communication, e	ven if timel	y filed, may reduce any			
Status	potent (011) 25,222.22.22.22.22.22.22.22.22.22.22.22.22						
1) 💢	Responsive to communication(s) filed on <u>Jul 22, 20</u>			·			
2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This act	tion is non-final					
3) 🗆	Since this application is in condition for allowance e closed in accordance with the practice under Ex pair			·			
Disposi	ition of Claims						
4) 💢	Claim(s) <u>1-13</u>			is/are pending in the application.			
4	4a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) <u>1-13</u>			is/are rejected.			
7) 🗆	Claim(s)			is/are objected to.			
8) 🗌	Claims	are	subject	t to restriction and/or election requirement.			
Applica	ation Papers						
9) 💢	The specification is objected to by the Examiner.						
10)💢	The drawing(s) filed on <u>Feb 22, 2002</u> is/are a) $\square$ accepted or b) $\square$ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examin						
	If approved, corrected drawings are required in reply t	to this Office ac	tion.				
12)	The oath or declaration is objected to by the Exami	iner.					
•	under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ()	☑ All b)☐ Some* c)☐ None of:			į			
	1. 🔀 Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority do application from the International Burea						
*S	ee the attached detailed Office action for a list of the						
14)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	.C. § 119(e).			
a) [	$\square$ The translation of the foreign language provisiona	al application ha	as been	received.			
15)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	.C. §§ 120 and/or 121.			
Attachm	ent(s)						
1) 💢 No	otice of References Cited (PTO-892)	_		O-413) Paper No(s)			
_	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)						
3) 🔽 In	formation Disclosure Statement(s) (PTO-1449) Paper No(s). 5	6) Other:					

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### Specification

- 1. The disclosure is objected to because of the following:
- A) The Applicant has not referred to the foreign priority document in the first sentence of the specification as required by Section 202.01 of the MPEP.
  - B) The following inconsistencies in nomenclature were noted:
- 1) Line 19 of page 19 recites "partition wall members...54". Line 8 of page 20 recites "duct 54".

To avoid confusion to the reader, and to facilitate identifying components by nomenclature in the claims, it is requested Applicant use consistent nomenclature for the same reference number throughout the specification.

#### Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference signs not mentioned in the description: 13, A1-A3, 40f, 55, W6, 17h and 17i. Correction is required.
- 3. Figure 5 is objected to, as the upper hood is labeled as 16 and the lower hood is labeled as
- 17. This is in contradiction to the other drawing figures and the specification.

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#### Claim Objections

- 4. Claims 12 and 13 are objected to because of the following:
- A) Claim 12 recites "...a portion of said partition wall member extending to a position adjacent said cooling air intake opening to take in ambient air drawn in through a position above the lower end of said upper hood".

The above recitation is objected to as the partition wall member does not "take in ambient air". The words "take in" would imply that a suction is being created, such as a carburetor "takes in" ambient air.

It is the Examiner's position that the "partition wall member", or a portion of it, merely "guides", or "allows passage" of the ambient air.

See also a similar recitation in claim 13.

## Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 13 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

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Claim 13 recites "...said cooling air intake opening is formed in said control panel, said portion of said partition wall member being part of a lower surface thereof and extending rearwardly of said lawn mower to take in ambient air from said cooling air intake opening".

As best understood, the control panel is reference number 11, the cooling air intake opening formed in the control panel is one of the opening associated with reference number 14 on Figure 7, the partition wall member is reference number 32 and the lawn mower is the entire vehicle assembly based on wording in the preamble of claim 12.

Inadequate written description was found for the following:

- A) Note that the drawing figures show that the partition wall member is part of the upper hood 17, not part of the control panel 11. Also note that the partition wall member is located proximal to an upper portion of the control panel, not a lower portion.
- B) Note that since the "lawn mower", as best understood from the preamble of claim 12, is the entire vehicle assembly, that it would not seem possible for any portion of the partition wall member to "extend rearwardly" of the vehicle assembly. Note that if the Applicant is referring to reference number 4 by the recitation of "lawn mower", that the above recitation is still not consistent with the drawing figures. Note that reference number 4 is described as "mower unit" in the specification.

For purposes of examination, any partition wall member proximal to a forward end of a control panel will be assumed to meet the above limitation.

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#### Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Imanishi, et al, US Patent 5,678,648.

Imanishi teaches an engine cooling system for use on a lawn mover having a vertical shaft type engine (E) with a cooling air intake fan (12) disposed above the engine, comprising:

a fan cover (20) for covering the fan;

a hood for covering said engine, said hood including:

an upper hood (4A) having a lower end located above a lower end of said fan cover (Figure 1); and

a lower hood (4B);

wherein said upper hood is displacable between a closed position adjacent said lower hood and an open position (about hinge shown on Figure 2);

a cooling air intake opening (17A) formed in at least one of said upper hood adjacent a control panel (not selected) and said control panel (17- selected) for taking in ambient air; and

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a partition wall member (21) disposed between said cooling air intake opening and said cooling air intake fan (see Figures 2 and 4) for restricting mixing of ambient air drawn by said fan and heat generating from said engine (see comments below), a portion of said partition wall member extending to a position adjacent said cooling air intake opening (see comments below) to take in ambient air drawn in through a position above the lower end of said upper hood (see claim objection portion of the office action, noting reference number 21 assists in "guiding" ambient air).

Regarding the claim 12 limitation "for restricting mixing of ambient air drawn by said fan and heat generating from said engine", it is noted this limitation is functional language. The functional recitation of intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the function or intended use, then it meets the claim. *In re Casey*, 370 F.2d 576, 152 USPQ 235, 238 (CCPA 1967). It is the Examiner's position that the prior art is *capable* of performing the recited functions.

Once this prima facie case has been established, the burden shifts to the applicant to show that the prior art structure does not possess the functionally defined limitations of his claimed apparatus. *In re Schreiber*, 128 F.3d 1473, 44 USPQ2d 1429, 1432 (Fed. Cir. 1997).

Regarding the claim 12 limitation "a portion of said partition wall member extending to a position adjacent said cooling air intake opening", note that Webster's Collegiate Dictionary,

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10th Edition, defines "adjacent" as: "not distant". Note that Figures 2 and 4 show that the aft portion of reference number 21 is not "distant" from reference number 17A.

Regarding claim 13, see Figures 1 and 2 and the 112 1st and claim objection portion of this Office Action.

#### Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imanishi, et al, US Patent 5,678,648, in view of Holm, et al, US Patent 4,969,533.

Imanishi teaches an engine enclosure for use on a vehicle having a cooling system for a vertical shaft type engine (E) with a cooling air intake fan (12) disposed above the engine, said engine enclosure comprising:

an upper hood (4A) for covering said engine from above, said upper hood having an upper surface and right and left side surfaces extending downward from said upper surface; and a lower hood (4B) for covering lateral areas of said engine.

Imanishi fails to teach a cooling air intake opening formed in a position above a lower end of at least one of said right and left side surfaces of said upper hood for taking in ambient air.

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However, Holm teaches a cooling air intake opening (54) formed in a position above a lower end of at least one of the right and left side surfaces of an upper hood for taking in ambient air (Figure 11). An intake opening formed on a side surface of an upper hood is advantageous in that the intake opening is relatively high off the ground and forward of the mower unit, which will minimize grass and dust intake. An intake opening formed on a side surface of an upper hood is also advantageous in that it allows the intake velocity to be reduced when coupled with the intake openings of Imanishi, which may reduce noise.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize an intake opening formed on a side surface of the upper hood of Imanishi, as taught by Holm.

Regarding claim 2, see reference number 20 and Figure 2 of Imanishi.

Regarding claim 3, see reference number 21 of Imanishi, or Figure 11 of Holm (horizontal structure in upper hood extending forwardly and rearwardly and guiding inlet air).

Regarding claim 4, note that the "vertical" portion of the partition wall member (horizontal structure in upper hood extending forwardly and rearwardly and guiding inlet air) in A STATE OF THE PARTY OF THE STATE OF THE STA Figure 11 of Holm defines a relatively short length of duct.

Regarding claim 5, see Figure 2 of Imanishi, or Figure 11 of Holm.

Regarding claim 6, note hinge structure on Figure 2 of Imanishi.

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Regarding claims 7 and 8, see reference number 21 of Imanishi, or Figure 11 of Holm. Note that although this is the same structure "utilized" in claim 3, note that claims 7 and 8 are dependant upon claim 1, not claim 3.

Regarding claims 9 and 10, see Figure 2 of Imanishi and Figure 1 of Holm.

Regarding claim 11, see Figure 11 of Holm.

#### Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - A) Sherwin teaches openings in a side of a hood
  - B) Kubohara, et al teaches air cooling for an engine
  - C) Yamashita, et al teaches vehicle similar to Applicant's
  - D) Ogasawara, et al teaches vehicle similar to Applicant's
  - E) Vaillancourt, et al teaches openings in a hood
  - F) Japanese Patent 4-66328 teaches a cooling system
  - G) Japanese Patent 4-243629 teaches an opening in a hood
- 12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bryan Fischmann whose telephone number is (703) 306-5955. The examiner can normally be reached on Monday through Friday from 7:30 to 4:00.

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If attempts to reach the Examiner by telephone are unsuccessful, the examiner's supervisor, Brian Johnson, can be reached on (703) 308-0885. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

BRYAN FISCHMANN
PATENT EXAMINER